



GENERAL MOTORS LLC
Global Vehicle Safety

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February 9, 2015
USG 4387

The Honorable Mark Rosekind
Administrator
National Highway Traffic Safety Administration
1200 New Jersey Avenue, SE
Washington, DC 20590

Subject: Revision to General Motors' Vehicle Identification Number decoding for 2016 Model Year

Dear Mr. Rosekind:

A revision to General Motors' Vehicle Identification Numbering (VIN) Standard for the 2016 Model Year dated January 15, 2015 is submitted per the VIN reporting requirements of 49 CFR Part 565.7.

For additional copies of any of the material submitted to the NHTSA for consideration at this time, any additional information regarding items herein, or if further discussion of this matter will be of assistance to the agency during its consideration of this petition, please contact me at the following address:

Brian Latouf, Director
Safety and Field Investigations
General Motors LLC
Mail Code 480-210-2V1
30001 Van Dyke
Warren, Michigan 48090-9020

Questions may also be directed to either Ms. Carolyn Eickel or Mr. Tony Magdaleno Sr. Mngr., Safety Regulations and Certification in GM's Warren office.

Sincerely,

Brian Latouf, Director
Safety and Field Investigations

cc: VIN Coordinator, Coleman Sachs
Attachment

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ES15-000702

General
Motors LLC

2016

This Vehicle Identification Numbering Standard is in
compliance with Federal Motor Vehicle Safety
Regulation 565

Vehicle Identification
Numbering
Standard

January 15, 2015



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Purpose

The purpose of this standard is to define the uniform composition of Vehicle Identification Numbers (VIN) applied to GM vehicles marketed in the United States, U.S. Territories, Canada and vehicles manufactured in US, Canada, and Mexico. This GM Standard has been promulgated in compliance with U.S. Federal Motor Vehicle Safety Regulation Part 565 (FMVSR 565) administered by the National Highway Traffic Safety Administration (NHTSA) and with Canada Motor Vehicle Safety Standard 115 (CMVSS 115) administered by Transport Canada.

Certain vehicles manufactured by GM for titling and registration elsewhere in the world may have other requirements with which they must comply, thus precluding the use of this VIN Standard. However, the VIN described herein does comply with the vehicle identification numbering standard of the International Organization for Standardization (ISO), and should be acceptable in many countries around the world.

Maintenance & Operating Responsibilities

Responsibility for updating the code tables contained herein has been established, and is shown on each table. As information or revisions to existing tables become known, the updated tables of codes for the coming model years(s) should be submitted by the authorized activity to North American Product Engineering. Mail Code 480-210-2G1 30001 Van Dyke Ave, Warren MI 48090-9020. Product Engineering has responsibility for publication and dissemination of the updated hardcopy model year tables of VIN data throughout General Motors.

A copy of the updated materials is sent to Global Safety Center (GSC), which has responsibility for review and approval of the coding tables specified. The GSC has the responsibility for submitting these tables of VIN data, and any revisions thereto, to the National Highway Traffic Safety Administration (NHTSA).

Requests for any changes or refinements to the information content (not coding tables) of these Standards shall be directed to Engineering. The revision request must provide a comprehensive explanation for the requested change. VIN Engineering is responsible to review revision requests and make appropriate modifications before issuing revised pages to the Standards. Upon approval of proposed revisions by involved Divisions and Staffs, revisions to the Standards are incorporated into the text of revised pages and are distributed and posted to the Labels, Literature & VIN website.

The Engine RPO and corresponding VIN Codes for Passenger Cars, Light-Duty Trucks (LDT), and Multi-Passenger Vehicles (MPV) that are published in this standard are also updated in the Production Order Management Systems (POMS) and the Integrated Scheduling Project (ISP) by VIN Engineering.

VIN DREs of GM regions will be responsible for distribution of this Standard to persons or activities of their Unit or Region who are affected by or have a need for this information.

The code* definitions contained in the tables of interpretive data that follow provide for translation of the characters comprising any GM VIN, while at the same time they provide the information needed to compose the correct VIN for a GM vehicle. The tables of interpretive data are organized in Sections, and are described as follows:

*Only Arabic numerals and English alphabetic capital letters are permitted in GM VINs. However, I, O (oh), and Q, and special characters are not allowed as stated in FMVSR 565 and/or ISO Standards.



Organization and Description of VIN Positions

VIN Positions 1~3

Positions 1~3 in the VIN are designated for the World Make/Manufacturer Identifiers (WMI). WMIs are assigned to General Motors by the Society of Automotive Engineers (SAE). This indicates the country of origin, the make/manufacturer, and type/brand of

For a complete list of the WMIs General Motors has, see the World Make/Manufacturer Identifier (WMI) section on page 1.

VIN Position 4 – Passenger Car

Position 4 designates the vehicle line. This is most commonly, but not always, the same as the book number. In the instance a book number has two characters, the second character is used to indicate the vehicle line.

VIN Position 4 – MPV, Light Duty Truck & Incomplete Vehicles

Position 4 designates the Gross Vehicle Weight Rating (GVWR), brake system and body style.

A complete chart of the GVWR, brake system, and body style can be found on page 25. A complete chart of body style descriptions can also be found on page 26.

VIN Position 5 – Passenger Car

Position 5 designates the car series. This includes the various trim levels and badges for a vehicle line.

VIN Position 5 – MPV, Light Duty Truck & Incomplete Vehicles

Position 5 designates the chassis of the vehicle. If a vehicle is equipped with either two wheel drive or four wheel drive, the 5th position will reflect which drive train is installed on the vehicle. Some vehicles however will have a 5th position similar to that of a passenger car, where the book number is used. In the instance the book number has two characters, the second character is used to indicate the vehicle chassis.

VIN Position 6 – Passenger Car

Position 6 designates the body styles for each vehicle.

VIN Position 6 - MPV, Light Duty Truck & Incomplete Vehicles

Position 6 designates the series of the vehicle. Like position 5 for passenger car, this includes the various trim levels and badges for a vehicle line.

VIN Position 7

Position 7 is an alpha only character, which designates the restraint system used in the vehicle.

VIN Position 8

Position 8 is an alpha/numeric character which designates the engine used in the vehicle.

VIN Position 9

Position 9 designates the Check Digit. The Check Digit is an alpha/numeric character which is calculated by the composition of the

See the Check Digit section for an explanation on the calculation of the check digit, and an example.

VIN Position 10

Position 10 designates the model year of the vehicle.

VIN Position 11

Position 11 designates the plant code the vehicle was built.

VIN Positions 12~17

Positions 12~17 is the sequence number, which is a sequential 6 digit number starting each new model year with 100001.



Check Digit

A check digit shall be provided as part of each vehicle identification number. The check digit shall occupy the ninth position in the vehicle identification number and appear as part of the number on the vehicle and on any documents containing the vehicle identification number.

The check digit is determined by carrying out the mathematical computation as follows:

- (1) Assign to each number in the vehicle identification number its actual mathematical value, and assign to each letter the value specified in the table below.

Table 1: Alpha Numeric Conversion Factor

| | | |
|-----|-----|-----|
| A=1 | J=1 | T=3 |
| B=2 | K=2 | U=4 |
| C=3 | L=3 | V=5 |
| D=4 | M=4 | W=6 |
| E=5 | N=5 | X=7 |
| F=6 | P=7 | Y=8 |
| G=7 | R=9 | Z=9 |
| H=8 | S=2 | |

- (2) Multiply the assigned value for each position in the vehicle identification number by the weight factor specified in the following table.

Table 2: Position and Weight Factor

| | | | |
|-----|----|------|---|
| 1st | 8 | 10th | 9 |
| 2nd | 7 | 11th | 8 |
| 3rd | 6 | 12th | 7 |
| 4th | 5 | 13th | 6 |
| 5th | 4 | 14th | 5 |
| 6th | 3 | 15th | 4 |
| 7th | 2 | 16th | 3 |
| 8th | 10 | 17th | 2 |
| 9th | 0 | | |

- (3) Add the resulting products and divide the total by 11.
- (4) The remainder is the check digit, which will be inserted in the ninth position. If the remainder is 0-9, the check digit is that numeric value; if the remainder is 10, the check digit is X.

Check Digit (continued)**EXAMPLE:**

| | | | | | | | | | | | | | | | | | |
|---------------------------------|-------------------------------------|---|-----------------------------|---|---|---|---|----|---|--------------------------------|----|----|----|----|----|----|----|
| VIN Position | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| VIN Example | 1 | G | 2 | N | G | 1 | 2 | E | X | 2 | M | 9 | 2 | 3 | 4 | 5 | 6 |
| ASSIGNED VALUE | 1 | 7 | 2 | 5 | 7 | 1 | 2 | 5 | X | 2 | 4 | 9 | 2 | 3 | 4 | 5 | 6 |
| MULTIPLY BY WEIGHT FACTOR | x | x | x | x | x | x | x | x | X | x | x | x | x | x | x | x | x |
| | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 10 | X | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 |
| ADD PRODUCTS | 8+49 | | + 12 + 25 + 28 + 3 + 4 + 50 | | | | | | X | +18+32+63+12+15+16+15+12 = 362 | | | | | | | |
| DIVIDE BY 11 | 362/11 = 32 + 10/11, remainder = 10 | | | | | | | | | | | | | | | | |

Therefore

CHECK DIGIT is: X (It will appear as the character in the 9th position of the VIN)

Table 3: Ninth Position Check Digit Values

| | | | | | | | | | | | |
|------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fractional Remainder | 0 | 1/11 | 2/11 | 3/11 | 4/11 | 5/11 | 6/11 | 7/11 | 8/11 | 9/11 | 10/11 |
| Decimal Equivalent Remainder | 0 | 0.091 | 0.182 | 0.273 | 0.364 | 0.455 | 0.545 | 0.636 | 0.727 | 0.818 | 0.909 |
| Check Digit | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | X |

World Make/Manufacturer Identifier (WMI)**Table 4: World Make/Manufacturer Identifier tables**

| US | Canada | Mexico | Other | Make | Comments |
|----|--------|--------|-------|------|----------|
|----|--------|--------|-------|------|----------|

Passenger Car

| | | | | | |
|-----|-----|-----|----------|-----------|--------------------------------------|
| 1G1 | 2G1 | 3G1 | KL8, 6G3 | Chevrolet | KL8 - GM Korea Company, 6G3 - Holden |
| 1G4 | 2G4 | --- | W04 | Buick | W04 - GM Europe |
| 1G6 | 2G6 | --- | --- | Cadillac | |

Light Duty Truck (LDT)

| | | | | | |
|-----|-----|-----|-----|-----------|---|
| 1GC | --- | 3GC | 3N6 | Chevrolet | 3N6 - Mfd. By Nissan for General Motors |
| 1GT | --- | 3GT | --- | GMC | |
| --- | --- | --- | --- | Cadillac | |

Multi Passenger Vehicle (MPV)

| | | | | | |
|-----|-----|-----|-----|-----------|------------------------|
| 5GA | --- | --- | KL4 | Buick | KL4 - GM Korea Company |
| 1GY | --- | 3GY | --- | Cadillac | |
| 1GN | 2GN | 3GN | KL7 | Chevrolet | KL7 - GM Korea Company |
| 1GK | 2GK | --- | --- | GMC | |

Incomplete Vehicles

| | | | | | |
|-----|-----|-----|-----|-----------|--|
| 1GB | --- | 3GB | --- | Chevrolet | |
| 1GD | --- | 3GD | --- | GMC | |
| --- | 2GE | --- | --- | Cadillac | |

Bus

| | | | | | |
|-----|-----|-----|-----|-----------|--|
| 1GA | --- | --- | --- | Chevrolet | |
| 1GJ | --- | --- | --- | GMC | |

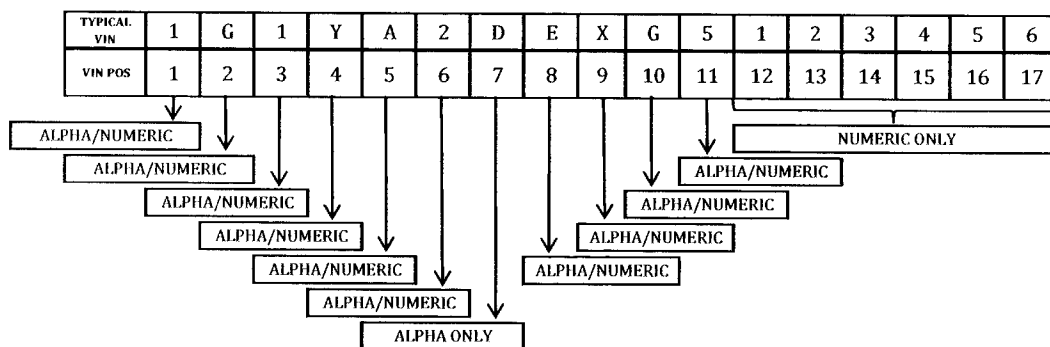
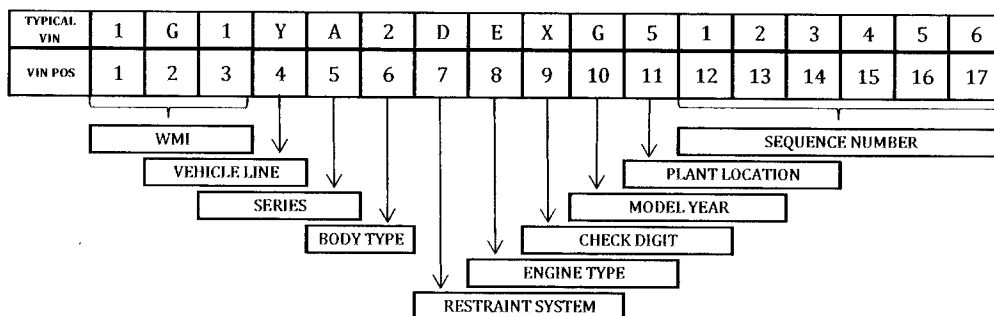
Restraint System - All Vehicles**Table 5: Restraint System Chart**

| Code | Restraint System Description |
|------|---|
| A: | Active Manual Belts, Airbag Delete |
| B: | Active Manual Belts, Airbag-Driver only - Front |
| C: | Active Manual Belts, Airbag-Driver & Passenger-Front (1st row) |
| D: | Active Manual Belts, Airbags-Driver & Passenger-Front (1st row), & Front Seat Side (1st row) |
| E: | Active Manual Belts, Airbags-Driver & Passenger-Front (1st row), Front Seat Side (1st row), Roof Side (all seating rows) |
| F: | Active Manual Belts, Airbag - Driver & Passenger - Front (1st row) and Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows) |
| G: | Active Manual Belts, Airbags - Driver & Passenger - Front (1st row), Front Seat Side (1st row) and Rear Seat Side (2nd row), Roof Side (all seating rows) |
| H: | Active Manual Belts, Airbag - Driver only - Front, Front Seat Side (1st row), Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows) |
| J: | Active Manual Belts, Airbag - Driver & Passenger - Front (1st row), Front Seat Side (1st row) and Rear Seat Side (2nd row) |
| K: | Active Manual Belts, Airbag - Driver & Passenger - Front (1st row) , Front Seat Side (1st Row), Front Inboard Seat Side (1st row), Roof Side (all seating rows) |
| L: | Active Manual Belts, Airbag - Driver & Passenger - Front (1st row), Front Seat Side (1st Row) Front Inboard Seat Side (1st row), Roof Side (all seating rows), Driver Knee |
| M: | Active Manual Belts, Airbag-Driver & Passenger Knee-Front (1st row) |
| N: | Active Manual Belts, Airbags-Driver & Passenger-Front (1st row), & Front Seat Side (1st row), Driver & Passenger Knee (1st row) |
| *N: | Active Manual Belts, Airbags - Driver & passenger Front, Seat Side, Roof Side |
| P: | Active Manual Belts, Airbag - Driver & Passenger - Front (1st row) and Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows), Driver & Passenger Knee (1st row) |
| R: | Active Manual Belts, Airbags-Driver & Passenger-Front (1st row), Front Seat Side (1st row), Roof Side (all seating rows), Driver & Passenger knee (1st row) |
| S: | Active Manual Belts, Airbags - Driver & Passenger Front (1st row), Front Seat Side (1st row) & Rear Seat Side (2nd row), Roof Side (all seating rows), Driver & Passenger knee (1st row) |
| T: | Active Manual Belts, Airbag - Driver & Passenger Front (1st row), Seat Side (1st row), Front Row Roof Side (1st row) |
| U: | Active Manual Belts, Airbags-Driver & Passenger - Front (1st row), Front Seat Side (1st row), Front Roof Side (1st row), Driver & Passenger knee (1st row) |
| V: | Active Manual Belts, Airbags-Driver & Passenger - Front (1st row), Front Seat Side (1st row), Roof Side (All seating rows for vehicles with 3 or fewer seating rows; 1st, 2nd and 3rd row for vehicles with 4 or more seating rows) |

**N - Chevrolet City Express Only*



Passenger Car Vehicle Identification Numbering System



Passenger Car Body Style Descriptions**Table 6: Passenger Car Body Style Descriptions**

| VIN Code | Body Style Descriptions |
|----------|--|
| 1 | 27 - Coupe, 2 - Door, Notchback |
| | 37 - Coupe, 2 - Door, Notchback |
| | 47 - Coupe, 2 - Door, Notchback Special |
| | 57 - Coupe, 2 - Door, Notchback Special |
| 2 | 07 - Coupe, 2 - Door, Plain Back |
| | 08 - Sedan, 2 - Door, Plain Back, H/Back |
| | 77 - Coupe, 2 - Door, Plain Back, H/Back |
| | 87 - Coupe, 2 - Door, Plain Back, Special |
| 3 | 67 - Coupe, 2 - Door, Convertible |
| 5 | 19 - Sedan, 4 - Door, 6 Window, Notchback |
| | 69 - Sedan, 4 - Door, 4 Window, Notchback |
| 6 | 26 - All Purpose Window 4 Dr, Liftgate |
| | 48 - Sedan, 4 - Door, 4 Window, H/Back |
| | 68 - Sedan, 4 - Door, 6 Window, Plain Back, (H/Back) |
| 8 | 35 - Station Wagon, 4 - Door |
| 9 | 75 - Station Wagon, 4 Door High Roof Monocab |

Passenger Car Engine Table

Table 7: Passenger Car Engines for GMNA

| Code | RPO | Book Code(s) | Description |
|------|-----|--------------|--|
| A: | LCV | A, OG | ENGINE GAS, 4 CYL, 2.5L, I4, SIDI, DOHC, DCVCP, VVT, E85 MAX, E0-E100, ALUM |
| A: | | | |
| B: | LUV | J, P | ENGINE GAS, 4 CYL, 1.4L, MFI, DOHC, TURBO, VVT, ALUM, GME E85 MAX |
| C: | LDE | J | ENGINE GAS, 4 CYL, 1.6L, MFI, DOHC, VVT, VARIABLE CAMSHAFT PHASING, VARIABLE INTAKE MODULE (VIM) |
| D: | | | |
| E: | | | |
| F: | LXT | RT | ENGINE GAS, 4 CYL, 1.6L, MFI, DOHC, 80KW |
| G: | LWE | J, P | ENGINE GAS, 4 CYL, 1.8L, MFI, DOHC, VVT, 103 KW, GME |
| H: | LWU | J, P | ENGINE GAS, 4 CYL, 1.8L, MFI, 103KW, DOHC, E85 MAX |
| J: | | | |
| K: | LEA | OG, P | ENGINE GAS, 4 CYL, 2.4L, SIDI, DOHC, E85 MAX, ALUM, GM |
| L: | | | |
| M: | | | |
| N: | | | |
| P: | | | |
| R: | LUK | OG | ENGINE GAS, 4 CYL, 2.4L, DI, ALUM, DOHC, BAS, ECOTEC |
| S: | LGX | A | ENGINE GAS, 6 CYL, 3.6L, V6, DI, DOHC, VVT, ALUM, GEN2 |
| T: | | | |
| U: | | | |
| V: | | | |
| W: | LS3 | 8E | ENGINE GAS, 8 CYL, 6.2L, SFI, ALUM, HO |
| X: | LTG | A, OG | ENGINE GAS, 4 CYL, 2.0L, SIDI, I4, ALUM DOHC, VVT, DCVCP TURBO, E0-E100, ALUM |
| Y: | LF4 | A | ENGINE GAS, 6 CYL, 3.6, GEN1+, V6, SIDI, DOHC, VVT, ALUM, TWIN TURBO |
| Z: | | | |
| 0: | EN0 | C | ENGINE NONE |
| 1: | | | |
| 2: | L77 | 8E | ENGINE FLEXIBLE FUEL, (GAS/ETHANOL), 8 CYL, 6.0L, SFI ALUM, AFM |
| 3: | LFX | OG, W, 8E | ENGINE GAS, 6 CYL, 3.6L, SIDI, DOHC, VVT, E85 MAX, ALUM GM |
| 4: | LUU | R | ENGINE FLEXIBLE FUEL, (GAS/ALC), 4 CYL, 1.4L, MFI, DOHC E-FLEX, FAM 0 |
| 5: | L3A | R | ENGINE GAS, 4 CYL, 1.5L, DI, DOHC, VVT, HYBRID, GEN 1 |
| 5: | LWC | OW | ENGINE GAS, 4 CYL, 1.6L, SIDI, TURBO, DOHC, VVT, HO, FAM 1, GEN, GME |
| 6: | | | |
| 6: | LT4 | Y, A | ENGINE GAS, 8 CYL, 6.2L, DI, SC, AFM, VVT, ALUM, GMNA |
| 7: | LT1 | Y | ENGINE GAS, 8 CYL, 6.2L, DI, AFM, VVT, HO, ALUM, GMNA |
| 8: | LF3 | OG, A | ENGINE GAS, 6 CYL, 3.6L, SIDI, DOHC, VVT, ALUM, TWIN TURBO, GM |
| 9: | | | |

*Engines listed as flexible fuel do not necessarily mean the vehicle is equipped for flexible fuel

Passenger Car Plant Codes**Table 8: Passenger Car Plant Codes**When VIN position 1 is "1" (U.S.A.):

| | | | |
|----|-----------------------------------|----|------|
| F: | Fairfax | KS | GMNA |
| U: | Detroit Hamtramck | MI | GMNA |
| 0: | Lansing - Grand River | MI | GMNA |
| 4: | Orion | MI | GMNA |
| 5: | Bowling Green | KY | GMNA |
| 7: | Lordstown | OH | GMNA |
| X: | Non Production/Non-Saleable Build | | GMNA |

When VIN position 1 is "2" (Canada):

| | | | |
|----|-----------------|----|------|
| 1: | Oshawa #2 (OST) | ON | GMNA |
| 9: | Oshawa #1 (OSH) | ON | GMNA |

When VIN position 1 is "3" (Mexico):

| | | | |
|----|-----------------|--------|------|
| S: | Ramos Arizpe | Mexico | GMNA |
| L: | San Luis Potosi | Mexico | GMNA |

When VIN position 1 is "6" (Australia):

| | | | |
|----|-----------|----|--------|
| L: | Elizabeth | SA | Holden |
|----|-----------|----|--------|

When VIN position 1 is "K" (S. Korea):

| | | | |
|----|----------|----------|----------|
| C: | Changwon | S. Korea | GM Korea |
|----|----------|----------|----------|